

FIG. 1

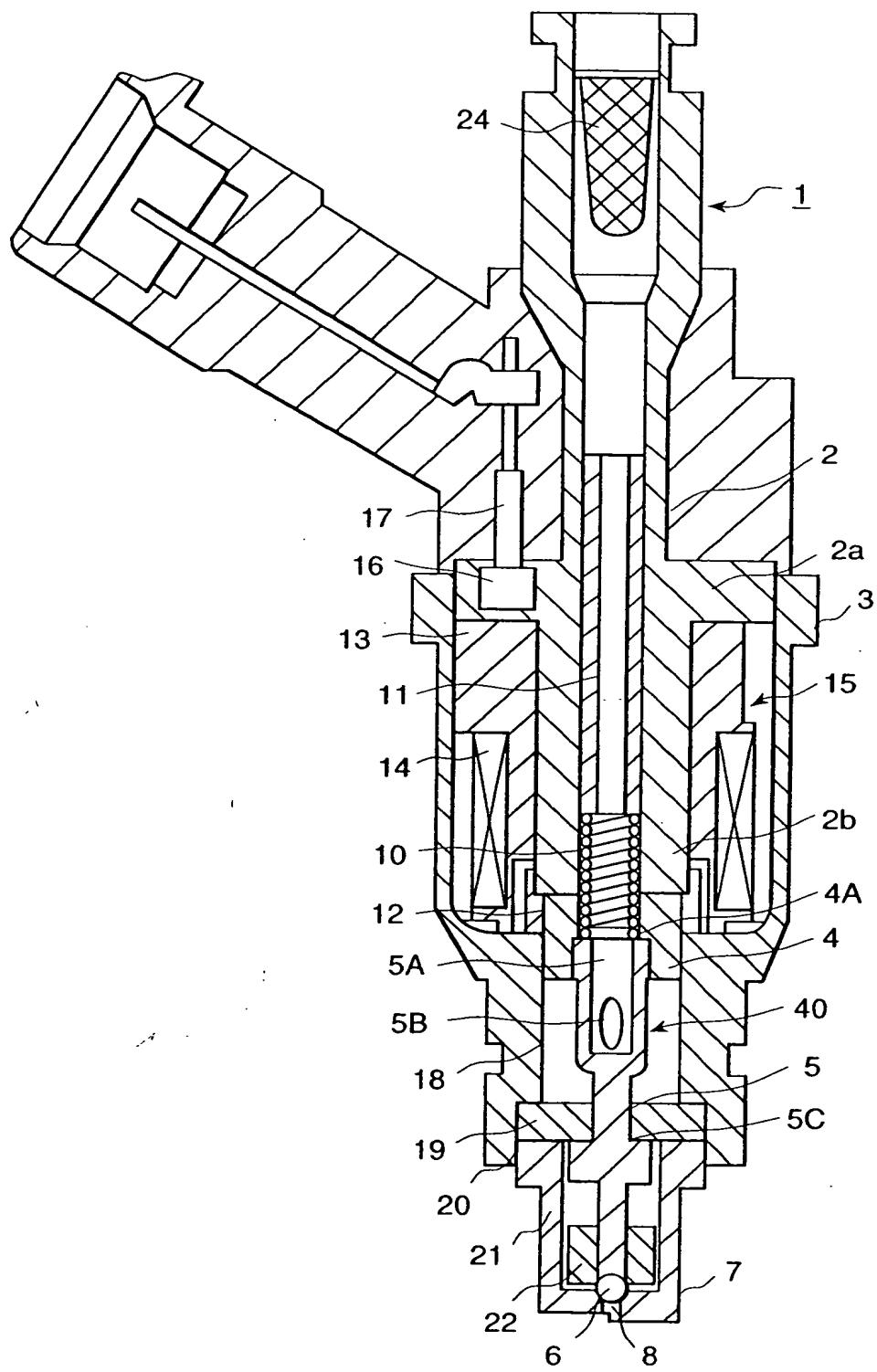


FIG. 2A

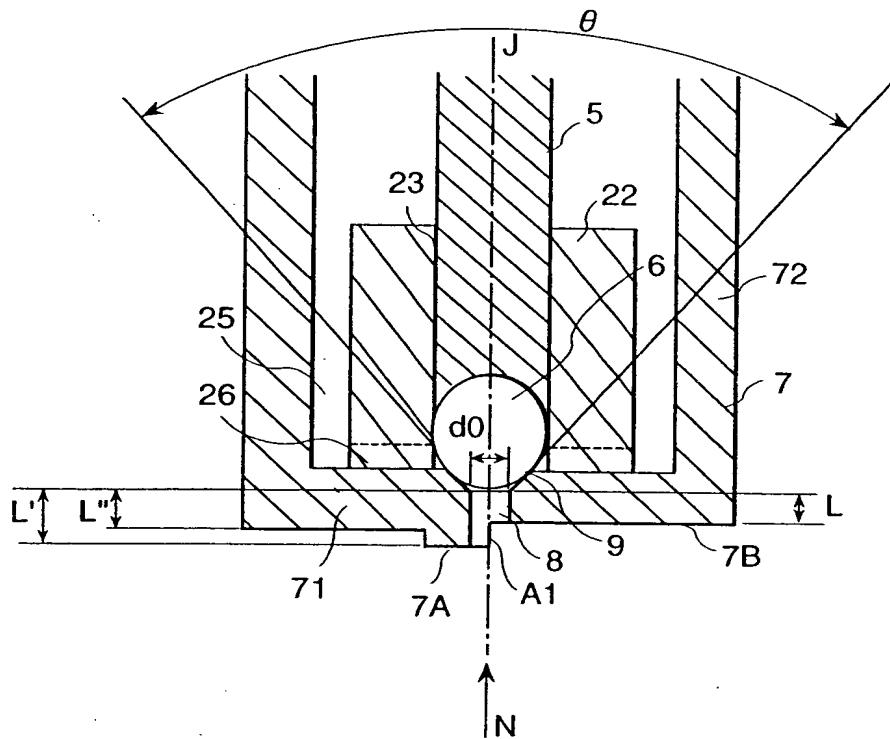


FIG. 2B

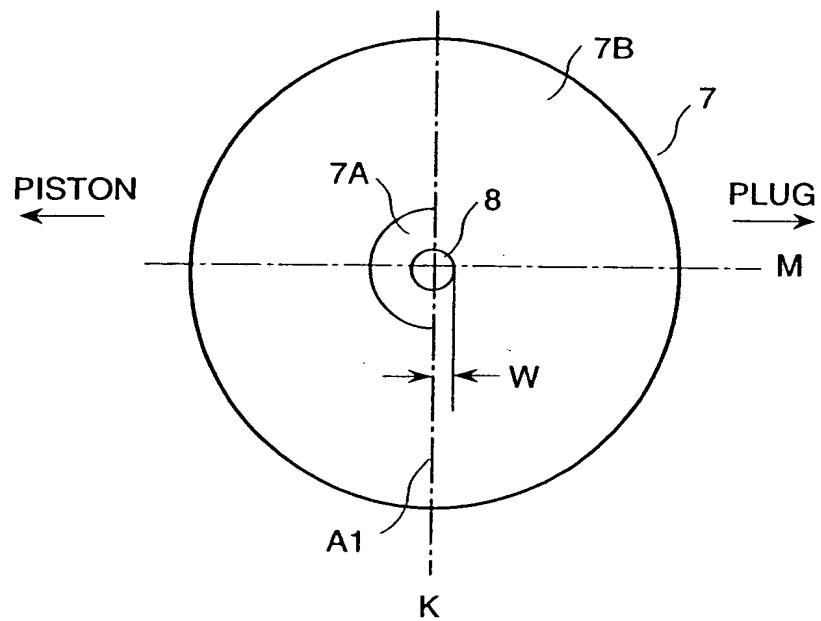


FIG. 3A

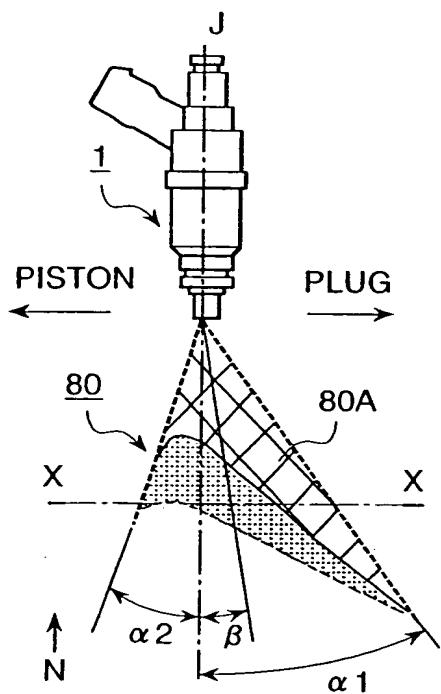


FIG. 3C

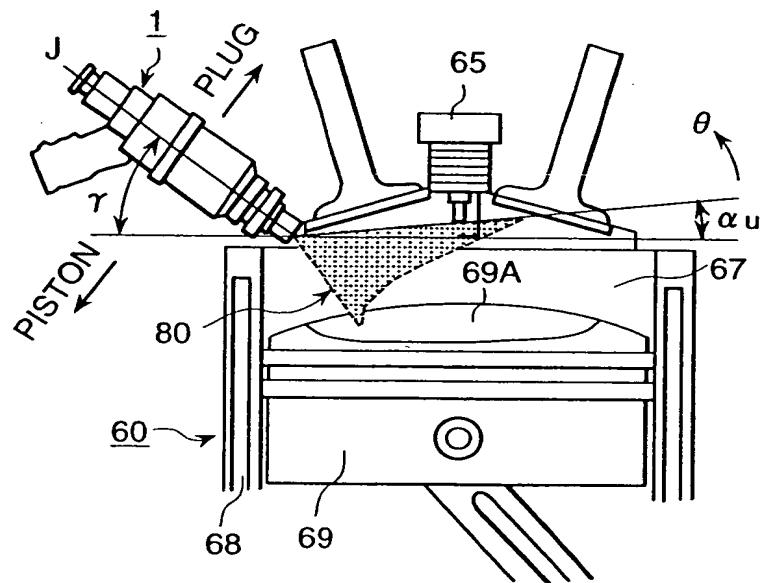


FIG. 3B

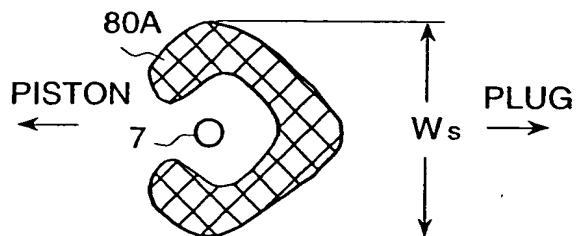


FIG. 4A

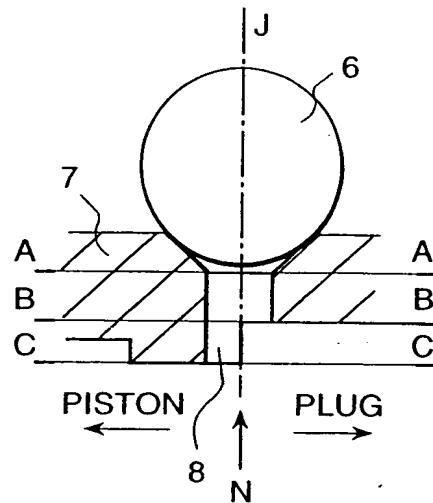


FIG. 4B

| SECTION | A - B | B - C |
|---|----------|---|
| FUEL RELEASE PORTION (WITHIN PLANE PERPENDICULAR TO J AXIS) | NO | PISTON ← PLUG → SEMICIRCLE (CONSTANT) |
| SPRAY INJECTION STATE (SPRAY SHAPE SEEN FROM N) | NO SPRAY | PISTON ← PLUG → |

FIG. 5A

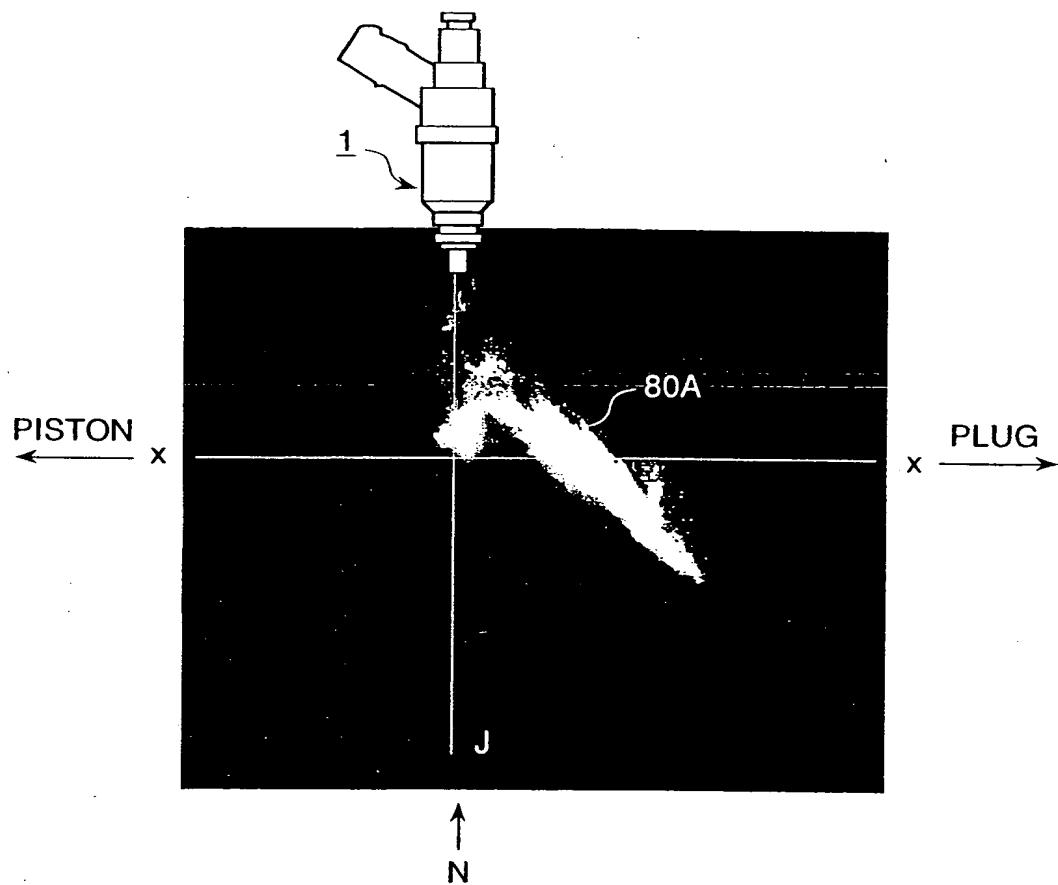


FIG. 5B

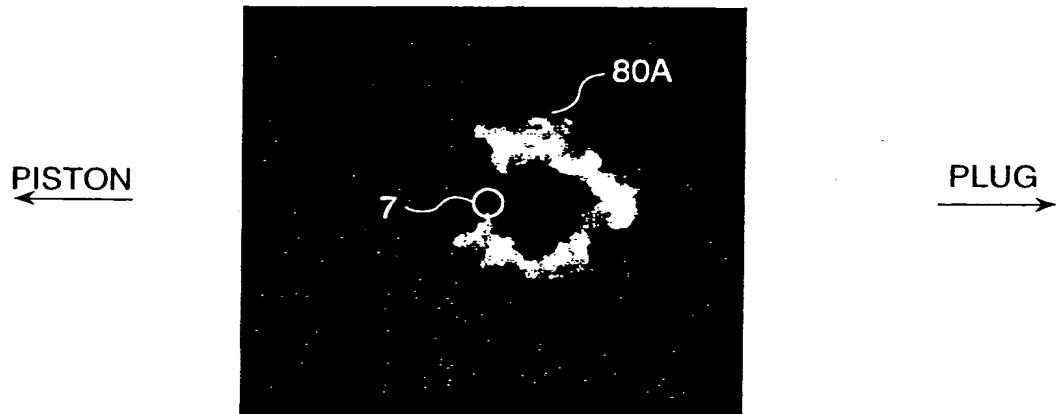


FIG. 6A

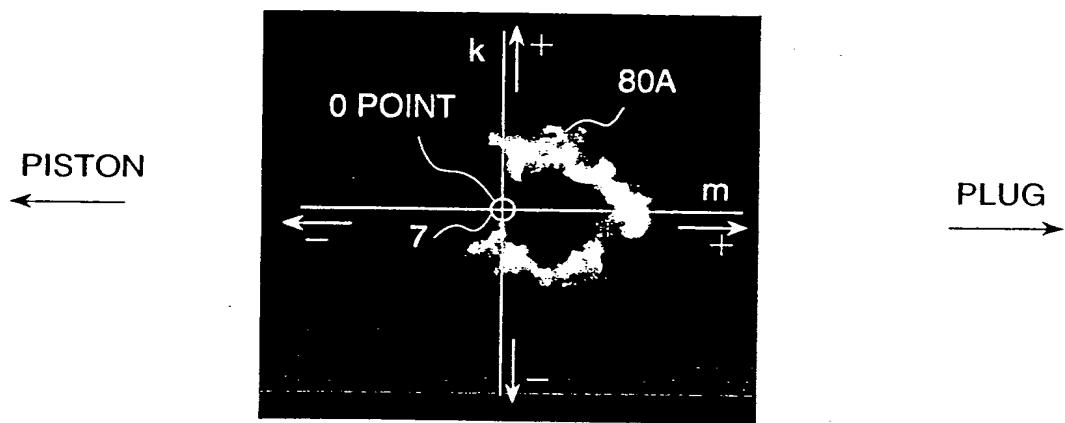


FIG. 6B

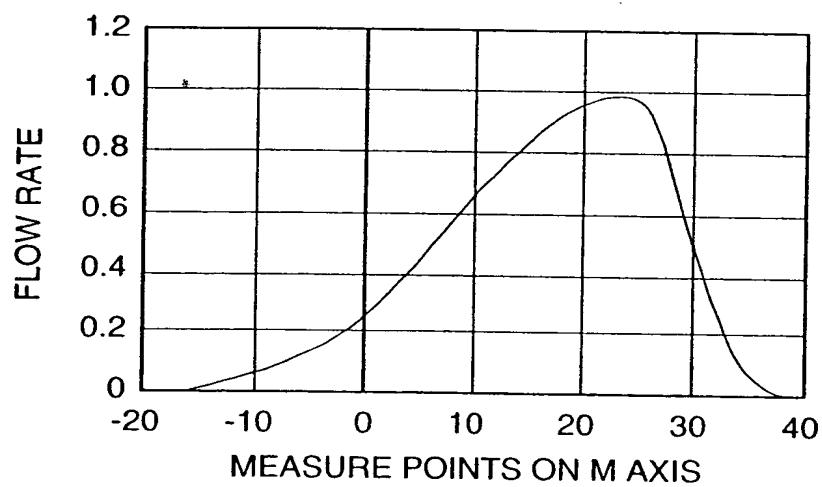


FIG. 6C

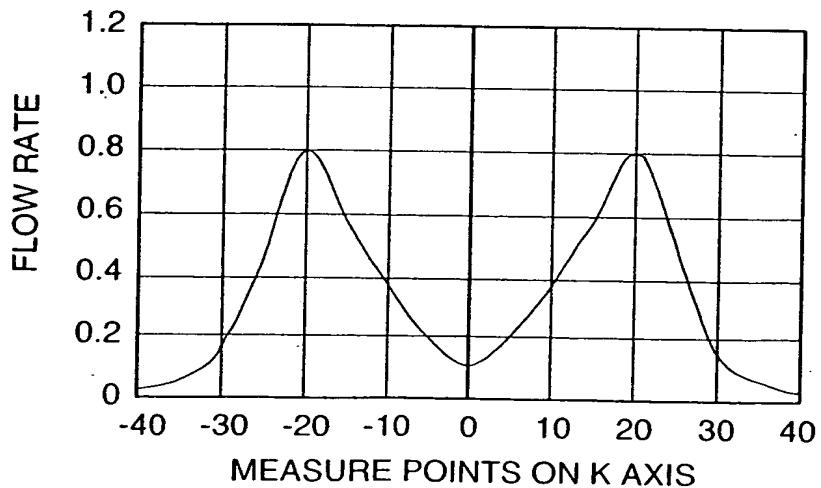


FIG. 7A

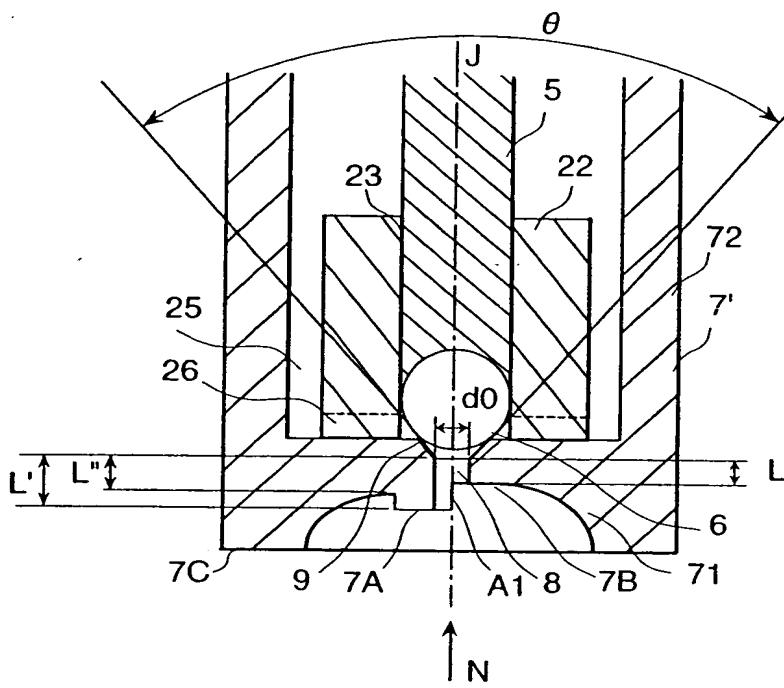


FIG. 7C

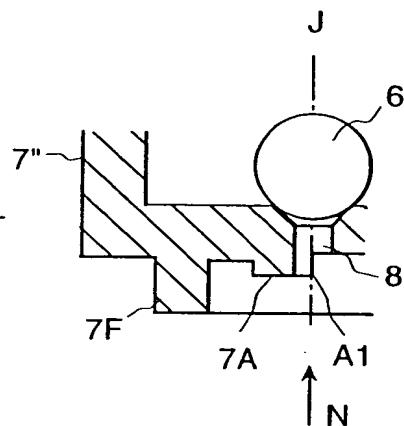


FIG. 7B

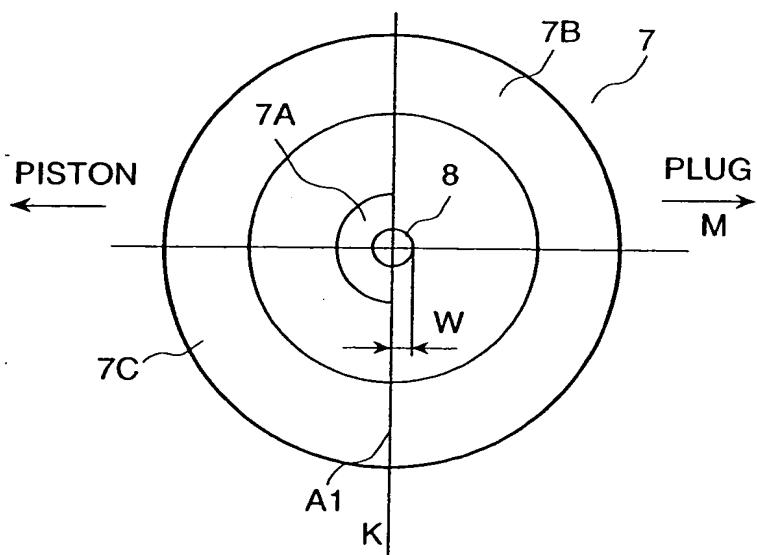
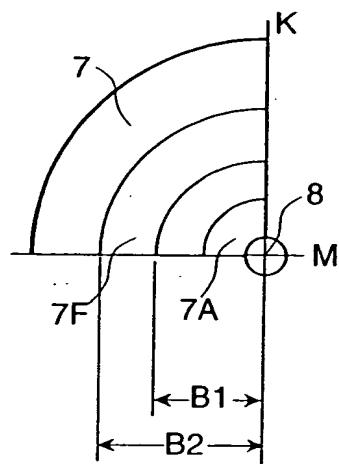


FIG. 7D



O

O

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FIG. 8A

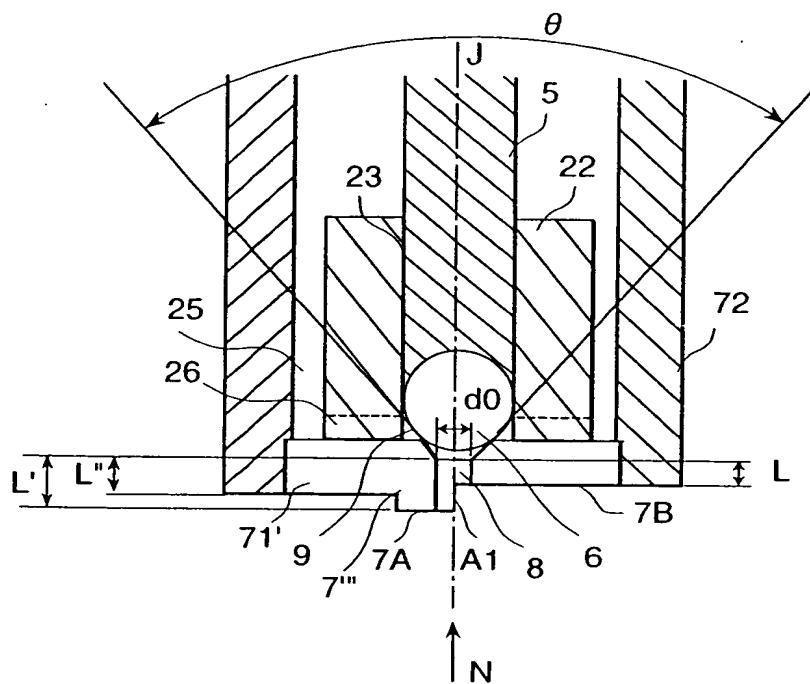


FIG. 8B

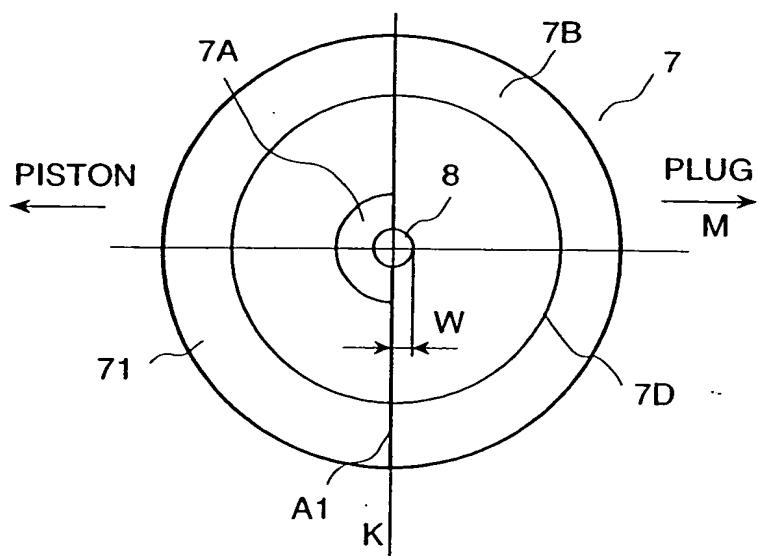


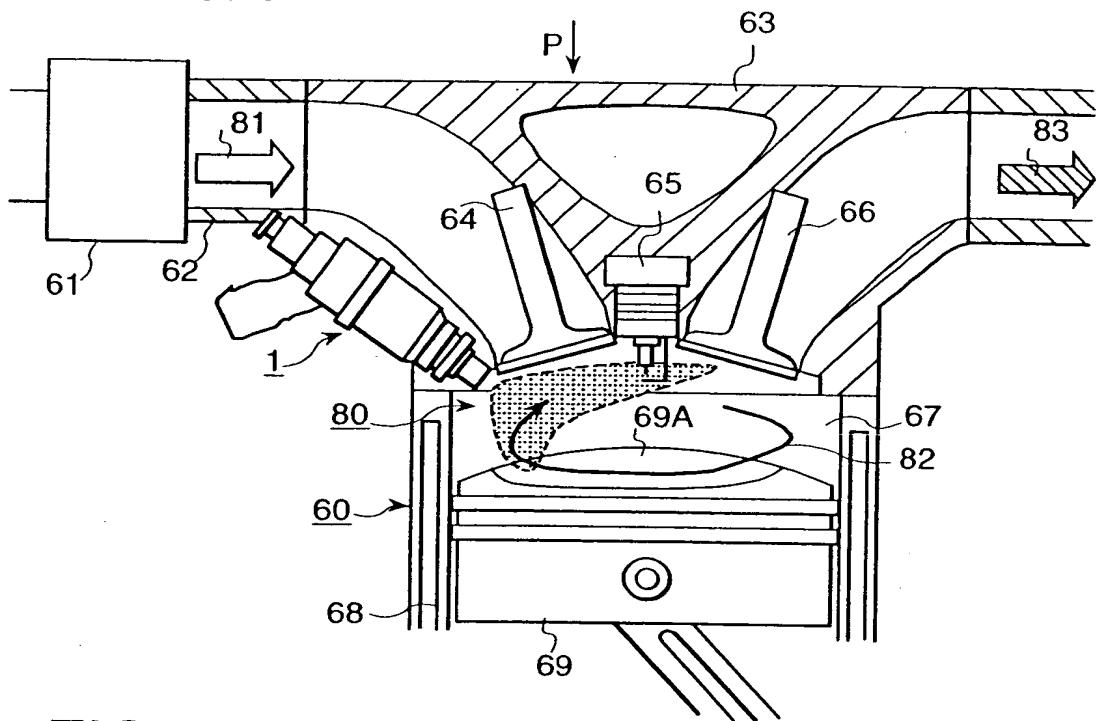
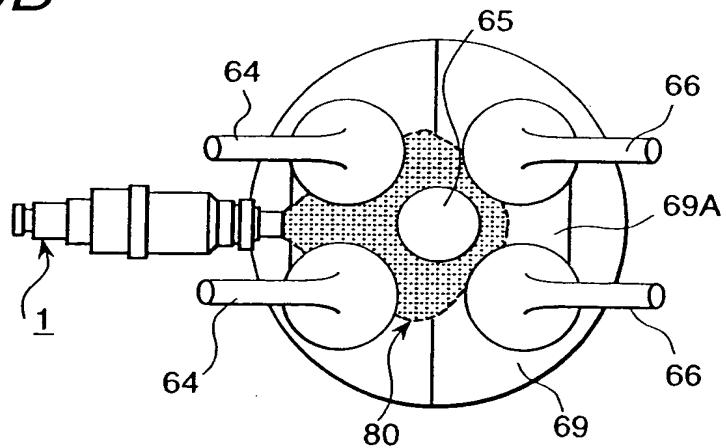
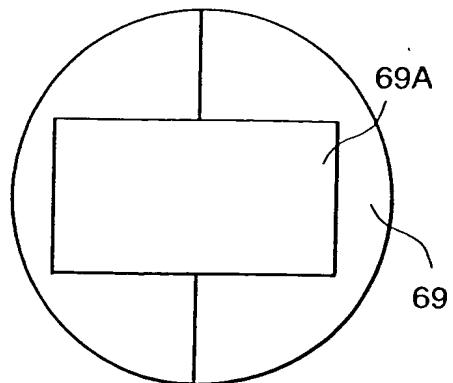
FIG. 9A**FIG. 9B****FIG. 9C**

FIG. 10A

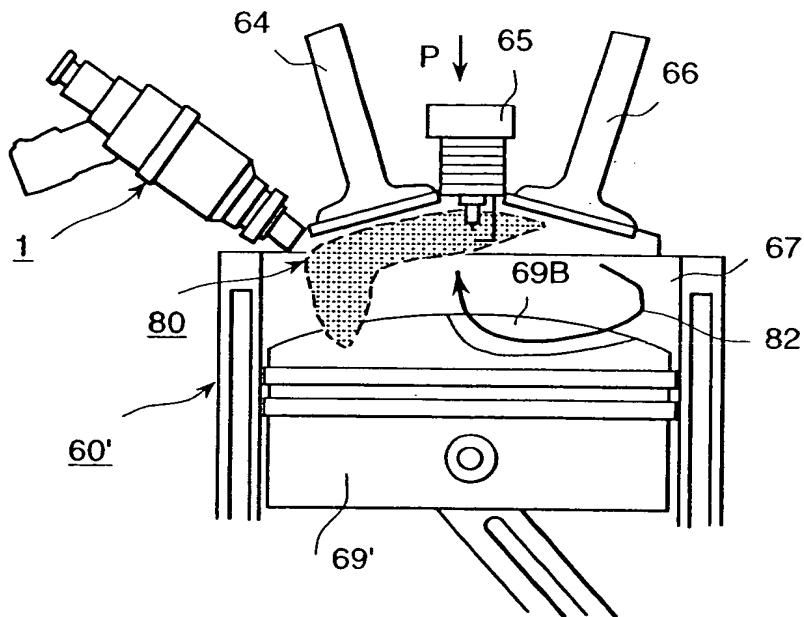


FIG. 10B

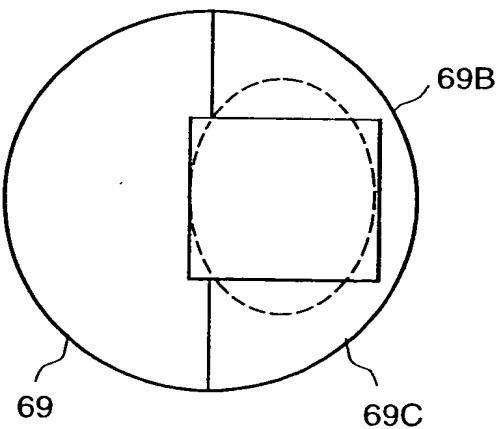


FIG. 11

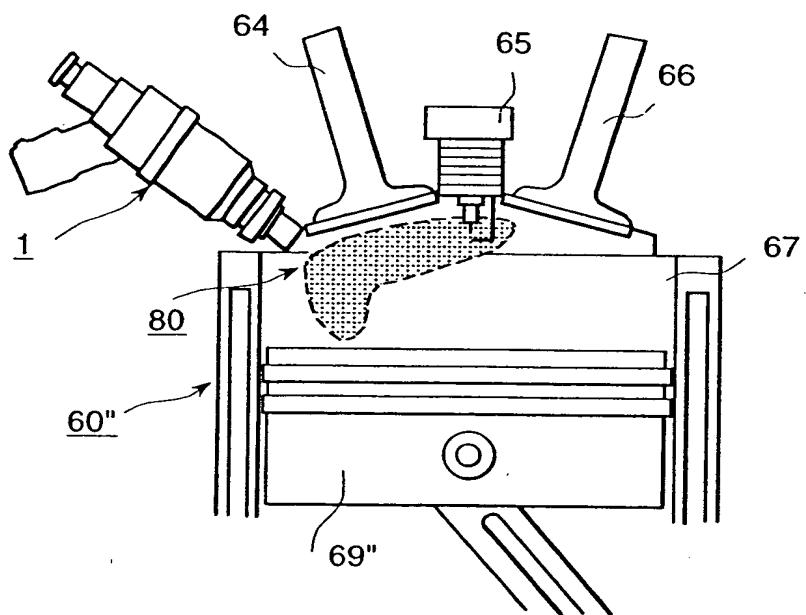


FIG. 12A

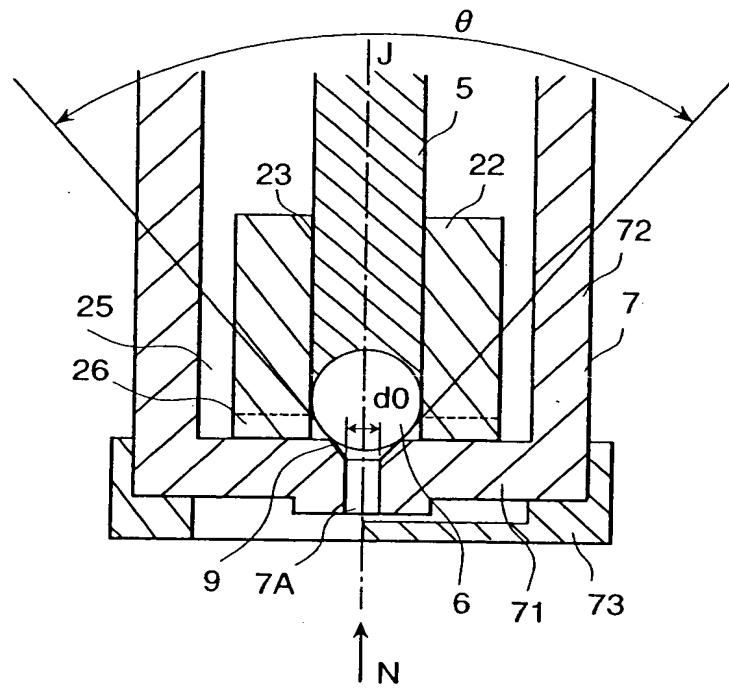


FIG. 12B

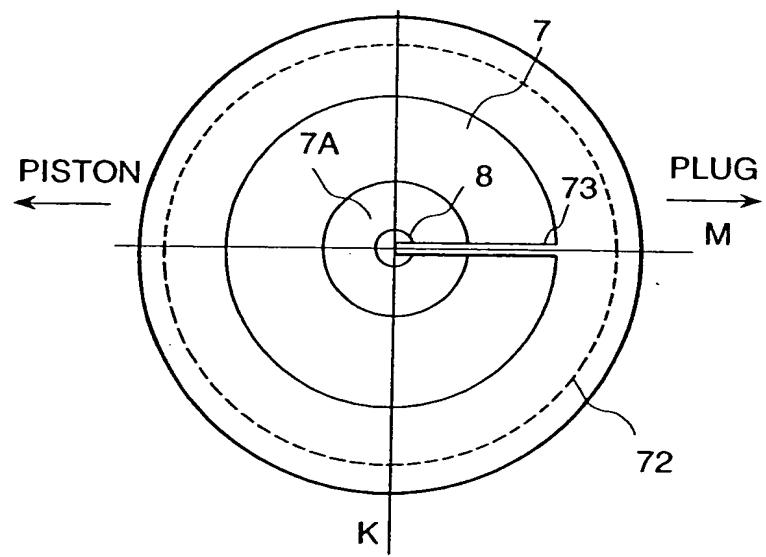


FIG. 13

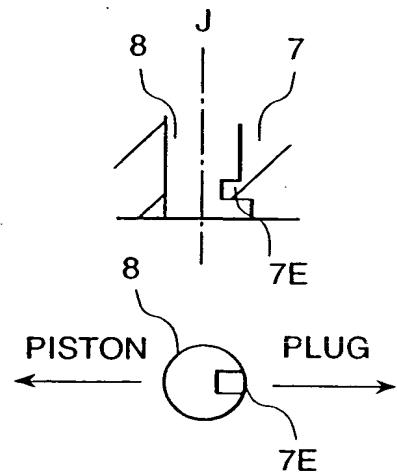


FIG. 14

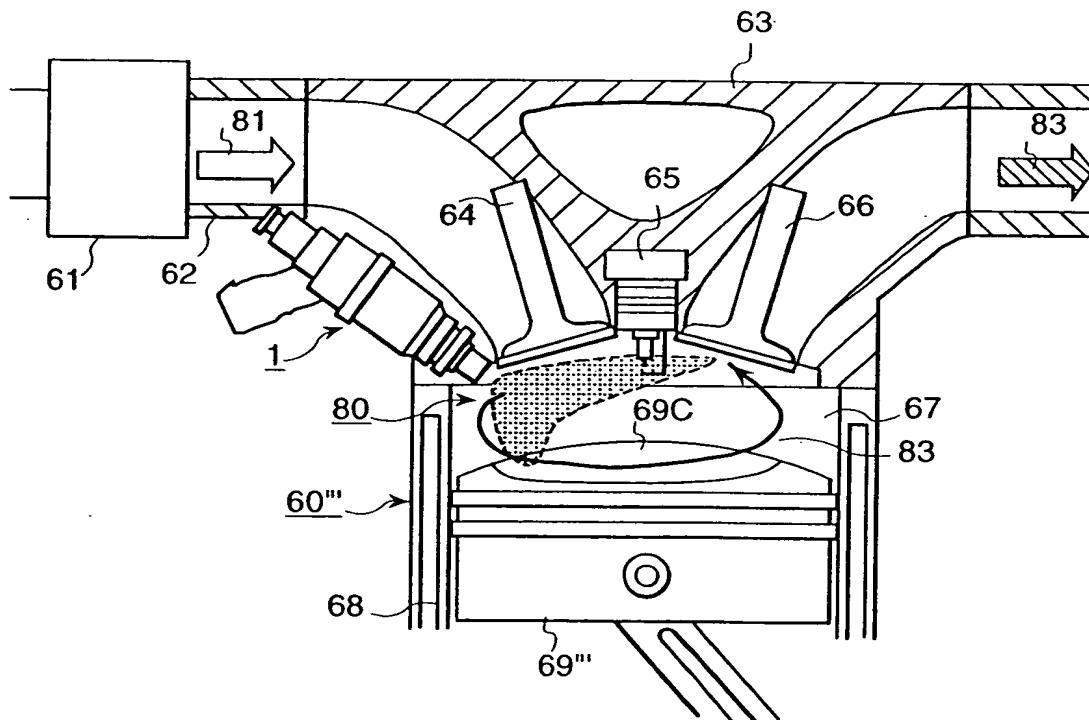


FIG. 15A

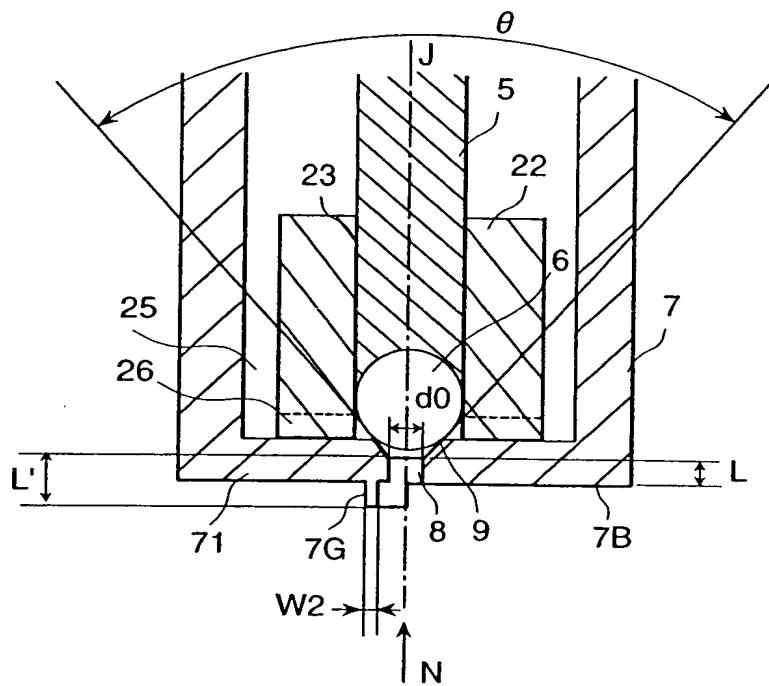


FIG. 15B

